

In the Claims

Please amend claims as follows:

1. CANCELLED

2. (Currently Amended) [The method of claim 1] A method for providing an electrical and fluidic connector on an electro-fluidic conductor, said electrical and fluidic connector having a first member and a second member that are separate and both electrically conductive, said second member having a fluid port that facilitates fluidic connection to a fluid conductor and said second member being configured to facilitate electrical connection to an electrical conductor, said method comprising the steps of:

(a) securing said first member to said electro-fluidic conductor such that said first member encircles an end portion of said electro-fluidic conductor and forms a fluid tight seal thereto, and electrically connects therewith; and

(b) matably connecting said first member to said second member such that said first member and said second member define a hollow inner chamber that comprises a fluid tight chamber for passing fluid between said electro-fluidic conductor and said fluid port of said second member, and wherein said first member and said second member themselves define an electrical connection between said electro-fluidic conductor and said electrical conductor when said electrical conductor is attached to said second member, wherein said method further comprises the step of removing a defective electrical and fluidic connector from said electro-fluidic conductor prior to said securing step (a).

3. (Original) The method of claim 2, wherein said defective electrical and fluidic connector comprises a single piece electrical and fluidic connector such that said method includes removing said single piece electrical and fluidic connector from said electro-fluidic conductor prior to said security step (a).

4. (Original) The method of claim 2, wherein said removing said defective electrical and fluidic connector comprises the step of heating said defective electrical and fluidic connector to soften an existing brazing alloy securing said defective electrical and fluidic connector to said electro-fluidic conductor such that said removing step is facilitated.

5. CANCELLED

6. CANCELLED

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8. CANCELLED

9. (Currently Amended) [The method of claim 7] A method for providing an electrical and fluidic connector on an electro-fluidic conductor, said electrical and fluidic connector having a first member and a second member that are separate and both electrically conductive, said second member having a fluid port that facilitates fluidic connection to a fluid conductor and said second member being configured to facilitate electrical connection to

an electrical conductor, said method comprising the steps of:

(a) securing said first member to said electro-fluidic conductor such that said first member encircles an end portion of said electro-fluidic conductor and forms a fluid tight seal thereto, and electrically connects therewith; and

(b) matably connecting said first member to said second member such that said first member and said second member define a hollow inner chamber that comprises a fluid tight chamber for passing fluid between said electro-fluidic conductor and said fluid port of said second member, and wherein said first member and said second member themselves define an electrical connection between said electro-fluidic conductor and said electrical conductor when said electrical conductor is attached to said second member, wherein said securing step (a) comprises the step of brazing said first member to said electro-fluidic conductor using a first brazing alloy, wherein said matably connecting step (b) comprises brazing said first member to said second member using a second brazing alloy having a lower melting temperature than a melting temperature of said first brazing alloy.

10. (Original) The method of claim 9, wherein said connecting step (b) comprises heating said first member and said second member to a temperature at least as high as the melting temperature of the second brazing alloy but lower than the melting temperature of the first brazing alloy such that the first brazing alloy does not melt during said connecting step (b).

11. (Currently Amended) [The method of claim 1] A method for providing an electrical and fluidic connector on an electro-fluidic conductor, said electrical and fluidic connector having a first member and a second member that are separate and both electrically conductive, said second member having a fluid port that facilitates fluidic connection to a fluid conductor and said second member being configured to facilitate electrical connection to an electrical conductor, said method comprising the steps of:

(a) securing said first member to said electro-fluidic conductor such that said first member encircles an end portion of said electro-fluidic conductor and forms a fluid tight seal thereto, and electrically connects therewith; and

(b) matably connecting said first member to said second member such that said first member and said second member define a hollow inner chamber that comprises a fluid tight chamber for passing fluid between said electro-fluidic conductor and said fluid port of said second member, and wherein said first member and said second member themselves define an electrical connection between said electro-fluidic conductor and said electrical conductor when said electrical conductor is attached to said second member, wherein said first member has at least one groove on an outer surface thereof, and wherein said method further comprises inserting a third brazing alloy into said at least one groove such that said matably connecting step (b) comprises brazing said first member to said second member using said third brazing alloy.

12. (Original) The method of claim 11, wherein said matably connecting step (b) comprises inserting said first member flush into said second member prior to said brazing of said first member to said second member.

13. (Original) The method of claim 12, wherein said method includes placing a ribbon alloy on an outer surface of said first member after said inserting of said third brazing alloy into said at least one groove and prior to said inserting said first member into said second member, said ribbon alloy securing said first member to said second member as a result of said brazing of said first member to said second member.

14. (Currently Amended) [The method of claim 1] A method for providing an electrical and fluidic connector on an electro-fluidic conductor, said electrical and fluidic connector having a first member and a second member that are separate and both electrically conductive, said second member having a fluid port that facilitates fluidic connection to a fluid conductor and said second member being configured to facilitate electrical connection to an electrical conductor, said method comprising the steps of:

(a) securing said first member to said electro-fluidic conductor such that said first member encircles an end portion of said electro-fluidic conductor and forms a fluid tight seal thereto, and electrically connects therewith; and

(b) matably connecting said first member to said second member such that said first member and said second member define a hollow inner chamber that comprises a fluid tight chamber for passing fluid between said electro-fluidic conductor and said fluid port of said second member, and wherein said first member and said second member themselves define an electrical connection between said electro-fluidic conductor and said electrical conductor when said electrical conductor is attached to said second member, wherein said matably connecting step (b) comprises inserting said first member into said second member

and brazing said first member to said second member.

15. (Original) The method of claim 14, wherein said method includes placing a ribbon alloy on an outer surface of said first member prior to said inserting said first member into said second member.

16. (Original) The method of claim 14, wherein said method further comprises applying pressure that forces said first member into said second member during said brazing of said first member to said second member.

17. CANCELLED

18. CANCELLED

19. (Currently Amended) [The method of claim 18] A method for providing an electrical and fluidic connector on an electro-fluidic conductor, said electrical and fluidic connector having a first member and a second member that are separate and both electrically conductive, said second member having a fluid port that facilitates fluidic connection to a fluid conductor and said second member being configured to facilitate electrical connection to an electrical conductor, said method comprising the steps of:

(a) securing said first member to said electro-fluidic conductor such that said first member encircles an end portion of said electro-fluidic conductor and forms a fluid tight seal thereto, and electrically connects therewith; and

(b) matably connecting said first member to said second member such that said first member and said second member define a hollow inner chamber that comprises a fluid tight chamber for passing fluid between said electro-fluidic conductor and said fluid port of said second member, and wherein said first member and said second member themselves define an electrical connection between said electro-fluidic conductor and said electrical conductor when said electrical conductor is attached to said second member, wherein said method further comprises the step of connecting said electrical conductor and said fluidic conductor to said electrical and fluidic connector for facilitating electrical and fluidic connection thereto, wherein said step of connecting said electrical conductor and said fluidic conductor to said electrical and fluidic connector comprises brazing and electrical conductor and said fluidic conductor to said electrical and fluidic connector, wherein said fluidic conductor and said electrical conductor comprise a single conductive pipe such that said step of connecting said electrical conductor and said fluidic conductor to said electrical and fluidic connector comprises brazing said single conductive pipe to said electrical and fluidic connector.

20. CANCELLED

21. (Currently Amended) [The method of claim 1] A method for providing an electrical and fluidic connector on an electro-fluidic conductor, said electrical and fluidic connector having a first member and a second member that are separate and both electrically conductive, said second member having a fluid port that facilitates fluidic connection to a fluid conductor and said second member being configured to facilitate electrical connection to

an electrical conductor, said method comprising the steps of:

(a) securing said first member to said electro-fluidic conductor such that said first member encircles an end portion of said electro-fluidic conductor and forms a fluid tight seal thereto, and electrically connects therewith; and

(b) matably connecting said first member to said second member such that said first member and said second member define a hollow inner chamber that comprises a fluid tight chamber for passing fluid between said electro-fluidic conductor and said fluid port of said second member, and wherein said first member and said second member themselves define an electrical connection between said electro-fluidic conductor and said electrical conductor when said electrical conductor is attached to said second member, wherein said electro-fluidic conductor comprises a stator bar in a water cooled electric machine, and wherein said security step (a) and said matably connecting step (b) are performed while said stator bar is installed in said water cooled electric machine.

22. (New) A method for providing an electrical and fluidic connector on an electro-fluidic conductor, said electrical and fluidic connector having a sleeve of a predetermined length with an outer surface and a clip having an interior surface, said sleeve and said clip defining a hollow inner chamber, said sleeve and clip being separate and both electrically conductive, said clip having a fluid port communicating with said chamber for facilitating fluidic connection to a fluid conductor and said clip being configured to facilitate electrical connection to an electrical conductor, said method comprising the steps of:

(a) securing said sleeve to said electro-fluidic conductor such that said sleeve encircles an end portion of said electro-fluidic conductor without substantially overhanging

said end and forms a fluid tight seal thereto, and electrically connects therewith;

(b) matably fitting and brazing the clip over the sleeve so that substantially the entire length of the sleeve is disposed in the clip with substantially its entire outer surface forming a fluid tight seal with the interior surface of the clip for passing fluid between said electro-fluidic conductor and said fluid port of said clip, and wherein said sleeve and said clip themselves define an electrical connection between said electro-fluidic conductor and said electrical conductor when said electrical conductor is attached to said clip.

23. (New) A method for providing an electrical and fluidic connector on an electro-fluidic conductor, said electrical and fluidic connector having a sleeve of a predetermined length with an outer surface and a clip having an interior surface, said sleeve and said clip defining a hollow inner chamber, said sleeve and clip being separate and both electrically conductive, said clip having a fluid port communicating with said chamber for facilitating fluidic connection to a fluid conductor and said clip being configured to facilitate electrical connection to an electrical conductor, said method comprising the steps of:

(a) removing a defective electrical and fluidic connector from said electro-fluidic conductor by heating said defective connector to soften an existing brazing alloy while chilling the electro-fluidic conductor near the defective connector to remove excess heat from the conductor;

(b) securing said sleeve to said electro-fluidic conductor such that said sleeve encircles an end portion of said electro-fluidic conductor without substantially overhanging said end and forms a fluid tight seal thereto, and electrically connects therewith;

(c) matably fitting and brazing the clip over the sleeve so that substantially the

entire length of the sleeve is disposed in the clip with substantially its entire outer surface forming a fluid tight seal with the interior surface of the clip for passing fluid between said electro-fluidic conductor and said fluid port of said clip, and wherein said sleeve and said clip themselves define an electrical connection between said electro-fluidic conductor and said electrical conductor when said electrical conductor is attached to said clip.

24. (New) A method for providing an electrical and fluidic connector on an electro-fluidic conductor, said electrical and fluidic connector having a sleeve of a predetermined length with an outer surface and a clip having an interior surface, said sleeve and said clip defining a hollow inner chamber, wherein the outer surface of the sleeve and the inner surface of the clip are correspondingly tapered, said sleeve and clip being separate and both electrically conductive, said clip having a fluid port communicating with said chamber for facilitating fluidic connection to a fluid conductor and said clip being configured to facilitate electrical connection to an electrical conductor, said method comprising the steps of:

(c) securing said sleeve to said electro-fluidic conductor such that said sleeve encircles an end portion of said electro-fluidic conductor and forms a fluid tight seal thereto, and electrically connects therewith;

(b) matably fitting and brazing the clip over the sleeve forming a fluid tight seal with the interior surface of the clip for passing fluid between said electro-fluidic conductor and said fluid port of said clip, and wherein said sleeve and said clip themselves define an electrical connection between said electro-fluidic conductor and said electrical conductor when said electrical conductor is attached to said clip, wherein pressure is applied during the brazing step so as to force the sleeve into the clip.

25. (New) The method of claim 24, wherein the sleeve encircles said end portion of said electro-fluidic conductor without substantially overhanging said end.

26. (New) The method of claim 24, wherein the clip is matably fit over the sleeve so that substantially the entire length of the sleeve is disposed in the clip with substantially its entire outer surface.

27. (New) A method for providing an electrical and fluidic connector on an electro-fluidic conductor, said electrical and fluidic connector having a sleeve of a predetermined length with an outer surface and a clip having an interior surface, said sleeve and said clip defining a hollow inner chamber, wherein the outer surface of the sleeve and the inner surface of the clip are correspondingly tapered, said sleeve and clip being separate and both electrically conductive, said clip having a fluid port communicating with said chamber for facilitating fluidic connection to a fluid conductor and said clip being configured to facilitate electrical connection to an electrical conductor, said method comprising the steps of:

(a) removing a defective electrical and fluidic connector from said electro-fluidic conductor by heating said defective connector to soften an existing brazing alloy while chilling the electro-fluidic conductor near the defective connector to remove excess heat from the conductor;

(b) securing said sleeve to said electro-fluidic conductor such that said sleeve encircles an end portion of said electro-fluidic conductor without substantially overhanging said end and forms a fluid tight seal thereto, and electrically connects therewith;

(c) matably fitting and brazing the clip over the sleeve so that substantially the entire length of the sleeve is disposed in the clip with substantially its entire outer surface forming a fluid tight seal with the interior surface of the clip for passing fluid between said electro-fluidic conductor and said fluid port of said clip, and wherein said sleeve and said clip themselves define an electrical connection between said electro-fluidic conductor and said electrical conductor when said electrical conductor is attached to said clip, wherein pressure is applied during the brazing step so as to force the sleeve into the clip.

28. (New) A method for providing an electrical and fluidic connector on an electro-fluidic conductor, said electrical and fluidic connector having a sleeve of a predetermined length with an outer surface and a clip having an interior surface, said sleeve and said clip defining a hollow inner chamber, said sleeve and clip being separate and both electrically conductive, said clip having a fluid port communicating with said chamber for facilitating fluidic connection to a fluid conductor and said clip being configured to facilitate electrical connection to an electrical conductor, said method comprising the steps of:

(a) removing a defective electrical and fluidic connector from said electro-fluidic conductor by heating said defective connector to soften an existing brazing alloy while chilling the electro-fluidic conductor near the defective connector to remove excess heat from the conductor;

(b) securing said sleeve to said electro-fluidic conductor such that said sleeve encircles an end portion of said electro-fluidic conductor and forms a fluid tight seal thereto, and electrically connects therewith;

(c) matably fitting and brazing the clip over the sleeve forming a fluid tight seal

with the interior surface of the clip for passing fluid between said electro-fluidic conductor and said fluid port of said clip, and wherein said sleeve and said clip themselves define an electrical connection between said electro-fluidic conductor and said electrical conductor when said electrical conductor is attached to said clip.